

CLAIMS

Sub 1
1. A spreading code assigning method in a direct sequence CDMA mobile communication system for transmitting a signal after spreading said signal
5 doubly with a first spreading code in a first spreading code group and a second spreading code in a second spreading code group, said first spreading code having the same repetition period as an
10 information symbol period, said second spreading code having a longer repetition period than the information symbol period, said first spreading code and said second spreading code forming spreading
15 codes for enlarging a band of a wide-band signal, a rate of said spreading codes being higher than an information rate, said method comprising the step of:

assigning a code associated with each base station group or a code associated with each network type to which said base station group belongs as
20 said second spreading code.

2. A signal transmitting method in a direct sequence CDMA mobile communication system for transmitting a signal after spreading said signal
25 doubly with a first spreading code in a first spreading code group and a second spreading code in a second spreading code group, said first spreading code having the same repetition period as an
information symbol period, said second spreading code having a longer repetition period than the
30 information symbol period, said first spreading code and said second spreading code forming spreading codes for enlarging a band of a wide-band signal, a rate of said spreading codes being higher than an
information rate, said method comprising the steps
35 of:

assigning a code associated with each base station group or a code associated with each network

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transmitting a signal which is spread with
said second spreading code between a base station
5 and a mobile station.

20 a base station using said second spreading
code assigned to each base station group or said
second spreading code assigned to each network type
to which said base station group belongs; and

4. A transmitter in a direct sequence CDMA mobile communication system for transmitting a signal after spreading said signal doubly with a first spreading code in a first spreading code group and a second spreading code in a second spreading code group, said first spreading code having the same repetition period as an information symbol period, said second spreading code having a longer repetition period than the information symbol period, said first spreading code and said second spreading

said transmitter assigning a code

said transmitter carrying out a

5. A receiver in a direct sequence CDMA

said receiver assigning a code associated
base station group or a code associated
network type to which said base station
belongs as said second spreading code, and

6. A transceiver in a direct sequence CDMA

mobile communication system for transmitting a
signal after spreading said signal doubly with a
35 first spreading code in a first spreading code group
and a second spreading code in a second spreading
code group, said first spreading code having the

same repetition period as an information symbol period, said second spreading code having a longer repetition period than the information symbol period, said first spreading code and said second spreading code forming spreading codes for enlarging a band of a wide-band signal, a rate of said spreading codes being higher than an information rate,

5 said transceiver assigning a code associated with each base station group or a code associated with each network type to which said base station group belongs as said second spreading code, and

10 said transceiver carrying out a communication using a signal spread by said second spreading code assigned to a base station.

15 7. The transmitter in the direct sequence CDMA mobile communication system as claimed in claim 4, said transmitter comprising:

20 second spreading code control means which generates and controls said second spreading code associated with each base station group or each network type to which said base station group belongs.

25 8. The receiver in the direct sequence CDMA mobile communication system as claimed in claim 5, said receiver comprising:

30 second spreading code control means which generates and controls said second spreading code associated with each base station group or each network type to which said base station group belongs.

35 9. The transceiver in the direct sequence CDMA mobile communication system as claimed in claim 6, said transceiver comprising:

second spreading code control means which generates and controls said second spreading code associated with each base station group or each

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